California Marine Life Protection Act Initiative Analysis of Habitat Representation in MPA Packages *March 29, 2006*

Package 1 (2/9/06 version)

Note that these habitat amounts are relative to proposed MPA designations, not SAT assigned levels of protection

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	How measured	Total amount in Study Region	Total percent of Study Region	Amount in Proposed SMRs	Percent of Total in Proposed SMRs	Amount in Proposed SMPs	Percent of Total in Proposed SMPs	Amount in Proposed SMCAs	Percent of Total in Proposed SMCAs	Amount in all Proposed MPAs in Region	Percent of Total in Proposed MPAs	Spatial Data Source
Area	Area (mi2)	1150.01		59.56	5.18%	4.41	0.38%	107.37	9.34%	171.33	14.90%	GIS analysis
Number of				21		1		7		29		
MPAs				21		'		,		25		
HABITAT TYPE												
Sandy or gravel beaches	Linear (mi)	223.66	60.3%	32.05	14.33%	3.52	1.57%	12.55	5.61%	48.12	21.51%	NOAA ESI 2002
Rocky intertidal and cliff	Linear (mi)	209.21	56.4%	46.59	22.27%	2.96	1.41%	12.29	5.87%	61.84	29.56%	NOAA ESI 2002
Coastal marsh	Linear (mi)	36.53	9.8%	19.83	54.28%	0.38	1.04%	4.69	12.84%	24.90	68.16%	NOAA ESI 2002
Tidal flats	Linear (mi)	23.48	6.3%	13.76	58.61%	0.15	0.64%	5.46	23.26%	19.37	82.51%	NOAA ESI 2002
Surfgrass	Linear (mi)	161.09	43.4%	40.29	25.01%	3.48	2.16%	8.59	5.33%	52.36	32.50%	Minerals Management Service / Tenera Inc.
Eelgrass	Area (mi2)	1.07	0.1%	0.27	25.16%	0.00	0.00%	0.79	73.62%	1.06	98.78%	Elkhorn Slough Foundation; Morro Bay National Estuary Program
Estuary	Area (mi2)	9.83	0.9%	3.09	31.43%	0.02	0.20%	2.64	26.86%	5.75	58.49%	Combined layer w/ data from NOAA ESI; National Wetlands Inventory; CNDDB; USGS
Soft 0-30	Area (mi2)	270.34	23.5%	28.82	10.66%	3.10	1.15%	6.84	2.53%	38.76	14.34%	Substrata_Proxy Layer (DFG 2005) based on fine scale (high res); coarse-scale (low res); union of all kelp as proxy for rock; CPFV rockfish fishing effort as proxy for rock
	Area (mi2)	562.38	48.9%	13.30	2.36%	0.18	0.03%	46.98	8.35%	60.46	10.75%	same as above
Soft 100-200		57.83	5.0%	0.47	0.81%	0.00	0.00%	10.34	17.88%	10.81	18.69%	same as above
Soft >200	Area (mi2)	105.52	9.2%	6.18	5.86%	0.00	0.00%	25.85	24.50%	32.03	30.36%	same as above
Hard 0-30	Area (mi2)	73.60	6.4%	8.68	11.79%	1.14	1.55%	5.30	7.20%	15.12	20.54%	same as above
Hard 30-100	Area (miz)	40.30	3.5%	1.29	3.20%	0.00	0.00%	3.79	9.40%	5.08	12.61%	same as above
Hard 100-200	` ,	14.64	1.3%	0.04	0.27%	0.00	0.00%	1.73	11.82%	1.77	12.09%	same as above
Hard >200	Area (mi2)	16.16	1.4%	0.16	0.99%	0.00	0.00%	5.18	32.06%	5.34	33.05%	same as above
Average kelp	Area (mi2)	10.83	0.94%	1.58	14.62%	0.45	4.13%	0.63	5.84%	2.66	24.59%	Average of DFG aerial survey years: '89, '99, '02, '03

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	How measured	Total amount in Study Region	Total percent of Study Region	Amount in Proposed SMRs	Percent of Total in Proposed SMRs	Amount in Proposed SMPs	Percent of Total in Proposed SMPs	Amount in Proposed SMCAs	Percent of Total in Proposed SMCAs	Amount in all Proposed MPAs in Region	Percent of Total in Proposed MPAs	Spatial Data Source
Area	Area (mi2)	1150.01		59.56	5.18%	4.41	0.38%	107.37	9.34%	171.33	14.90%	GIS analysis
Number of MPAs				21		1		7		29		
HABITAT TYPE												
kelp	Area (mi2); present in 3 of 4 yrs	3.18	0.3%	0.85	26.74%	0.20	6.29%	0.22	6.92%	1.27	39.96%	Kelp present in 3 of 4 DFG survey years
Canyon 0-30	Area (mi2)	0.56	0.0%	0.05	8.85%	0.00	0.00%	0.15	26.55%	0.20	35.40%	Coarse-scale substrata data (Greene et al 2004)
Canyon 30- 100	Area (mi2)	4.42	0.4%	0.15	3.39%	0.00	0.00%	0.04	0.90%	0.19	4.30%	Coarse-scale substrata data (Greene et al 2004)
Canyon 100- 200	Area (mi2)	6.06	0.5%	0.27	4.46%	0.00	0.00%	0.19	3.14%	0.46	7.59%	Coarse-scale substrata data (Greene et al 2004)
Canyon >200	Area (mi2)	42.77	3.7%	2.12	4.96%	0.00	0.00%	11.14	26.04%	13.26	31.00%	Coarse-scale substrata data (Greene et al 2004)

SC = special closure; SMCA = state marine conservation area; SMP = state marine park; SMR = state marine reserve The total shoreline length, as measured by NOAA-ESI data, is 371mi.